

FILE 'HOME' ENTERED AT 22:32:27 ON 04 FEB 2011

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.23

0.23

FILE 'REGISTRY' ENTERED AT 22:32:50 ON 04 FEB 2011

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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 3 FEB 2011 HIGHEST RN 1262099-55-7

DICTIONARY FILE UPDATES: 3 FEB 2011 HIGHEST RN 1262099-55-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2010.

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=>

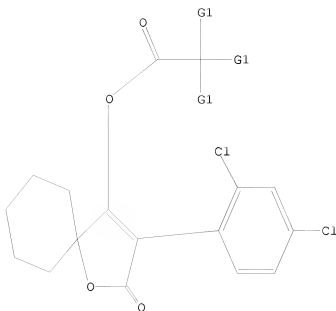
Uploading C:\Program Files\STNEXP\Queries\10\_563803 Active.str

L1 STRUCTURE UPLOADED

=> d L1

L1 HAS NO ANSWERS

L1 STR



G1 Me, Et, n-Pr, i-Pr, n-Bu, i-Bu, s-Bu, t-Bu

Structure attributes must be viewed using STN Express query preparation.

=> s L1 SSS SAM

SAMPLE SEARCH INITIATED 22:33:19 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 21 TO ITERATE

100.0% PROCESSED

21 ITERATIONS

8 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 146 TO 694

PROJECTED ANSWERS: 8 TO 329

L2 8 SEA SSS SAM L1

=> d scan L2

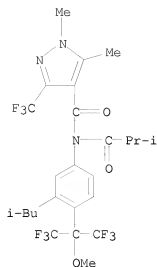
L2 8 ANSWERS REGISTRY COPYRIGHT 2011 ACS on STN

IN Butanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl ester, mixt. with 1,5-dimethyl-N-(2-methyl-1-oxopropyl)-N-[3-(2-methylpropyl)-4-(2,2,2-trifluoro-1-methoxy-1-(trifluoromethyl)ethyl]phenyl]-3-(trifluoromethyl)-1H-pyrazole-4-carboxamide

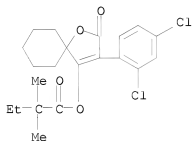
MF C25 H28 F9 N3 O3 . C21 H24 Cl2 O4

CI MXS

CM 1



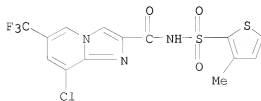
CM 2



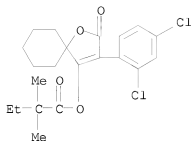
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L2 8 ANSWERS REGISTRY COPYRIGHT 2011 ACS on STN  
 IN Butanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl ester, mixt. with  
 8-chloro-N-[(3-methyl-2-thienyl)sulfonyl]-6-(trifluoromethyl)imidazo[1,2-a]pyridine-2-carboxamide  
 MF C21 H24 Cl2 O4 . C14 H9 Cl F3 N3 O3 S2  
 CI MXS

CM 1

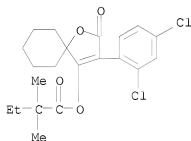


CM 2



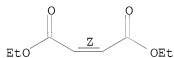
L2 8 ANSWERS REGISTRY COPYRIGHT 2011 ACS on STN  
 IN 2-Butenedioic acid (2Z)-, diethyl ester, mixt. with  
 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl  
 2,2-dimethylbutanoate (9CI)  
 MF C21 H24 Cl2 O4 . C8 H12 O4  
 CI MXS

CM 1



CM 2

Double bond geometry as shown.

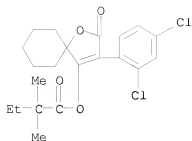


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

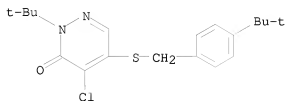
L2 8 ANSWERS REGISTRY COPYRIGHT 2011 ACS on STN  
 IN Butanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-1-  
 oxaspiro[4.5]dec-3-en-4-yl ester, mixt. with  
 N-(ethoxymethyl)-3-iodo-1,5-dimethyl-N-[3-(2-methylpropyl)-4-[2,2,2-  
 trifluoro-1-methoxy-1-(trifluoromethyl)ethyl]phenyl]-1H-pyrazole-4-  
 carboxamide  
 MF C23 H28 F6 I N3 O3 . C21 H24 Cl2 O4  
 CI MXS

COc1c(C(F)(F)F)c(NC(=O)c2c(C)c(C)c(C)c2)c(C(F)(F)F)c1C(F)(F)FCC(C)(C)C(=O)OC1=C(C(=O)C2=CC=C(Cl)C=C2)C3CCCCC13

CM 1

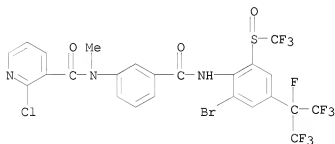


CM 2

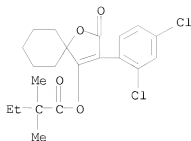


L2 8 ANSWERS REGISTRY COPYRIGHT 2011 ACS on STN  
 IN Butanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl ester, mixt. with  
 N-[3-[[[2-bromo-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-6-[(trifluoromethyl)sulfinyl]phenyl]amino]carbonyl]phenyl]-2-chloro-N-methyl-3-pyridinecarboxamide  
 MF C24 H13 Br Cl F10 N3 O3 S . C21 H24 Cl2 O4  
 CI MXS

CM 1



CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> d his

(FILE 'HOME' ENTERED AT 22:32:27 ON 04 FEB 2011)

FILE 'REGISTRY' ENTERED AT 22:32:50 ON 04 FEB 2011

L1 STRUCTURE UPLOADED

L2 8 S L1 SSS SAM

=> s L1 SSS FULL

FULL SEARCH INITIATED 22:34:25 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 462 TO ITERATE

100.0% PROCESSED 462 ITERATIONS

118 ANSWERS

SEARCH TIME: 00.00.01

L3 118 SEA SSS FUL L1

=> file hcaplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

197.88

198.11

FILE 'HCAPLUS' ENTERED AT 22:34:37 ON 04 FEB 2011

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 4 Feb 2011 VOL 154 ISS 7

FILE LAST UPDATED: 3 Feb 2011 (20110203/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2010

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2010

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the fourth quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 22:32:27 ON 04 FEB 2011)

FILE 'REGISTRY' ENTERED AT 22:32:50 ON 04 FEB 2011

L1 STRUCTURE UPLOADED

L2 8 S L1 SSS SAM

L3 118 S L1 SSS FULL

FILE 'HCAPLUS' ENTERED AT 22:34:37 ON 04 FEB 2011

=> s L3

L4 345 L3

=> s L4 and (acarids or mite or tick or acaride or acari? or Acariformes or Parasitiformes or Opilioacariformes)

299 ACARIDS

10755 MITE

7326 TICK

10 ACARIDE

16995 ACARI?

13 ACARIFORMES

17 PARASITIFORMES

2 OPILIOACARIFORMES

L5 229 L4 AND (ACARIDS OR MITE OR TICK OR ACARIDE OR ACARI? OR ACARIFORMES OR PARASITIFORMES OR OPILIOACARIFORMES)

=> s L4 (P) (acarids or mite or tick or acaride or acari? or Acariformes or Parasitiformes or Opilioacariformes)

299 ACARIDS

10755 MITE

7326 TICK

10 ACARIDE

16995 ACARI?

13 ACARIFORMES

17 PARASITIFORMES

2 OPILIOACARIFORMES

L6 129 L4 (P) (ACARIDS OR MITE OR TICK OR ACARIDE OR ACARI? OR ACARIFORMES OR PARASITIFORMES OR OPILIOACARIFORMES)

=> s L6 (P) (conifer or spruce or fir or tree or pine)

5046 CONIFER

19215 SPRUCE

13828 FIR

84335 TREE

47349 PINE

L7 0 L6 (P) (CONIFER OR SPRUCE OR FIR OR TREE OR PINE)

=> s L6 and (conifer or spruce or fir or tree or pine)

5046 CONIFER

19215 SPRUCE

13828 FIR

84335 TREE

47349 PINE



L8 24 L6 AND (CONIFER OR SPRUCE OR FIR OR TREE OR PINE)

=> dup rem L8  
 PROCESSING COMPLETED FOR L8  
 L9 24 DUP REM L8 (0 DUPLICATES REMOVED)

=> s L9 and pd<20030714  
 L10 24 S L9  
 23865462 PD<20030714  
 (PD<20030714)  
 L11 0 L10 AND PD<20030714

=> d his  
 (FILE 'HOME' ENTERED AT 22:32:27 ON 04 FEB 2011)

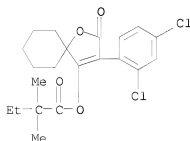
FILE 'REGISTRY' ENTERED AT 22:32:50 ON 04 FEB 2011  
 L1 STRUCTURE UPLOADED  
 L2 8 S L1 SSS SAM  
 L3 118 S L1 SSS FULL

FILE 'HCAPLUS' ENTERED AT 22:34:37 ON 04 FEB 2011  
 L4 345 S L3  
 L5 229 S L4 AND (ACARIDS OR MITE OR TICK OR ACARIDE OR ACARI? OR ACARI  
 L6 129 S L4 (P) (ACARIDS OR MITE OR TICK OR ACARIDE OR ACARI? OR ACARI  
 L7 0 S L6 (P) (CONIFER OR SPRUCE OR FIR OR TREE OR PINE)  
 L8 24 S L6 AND (CONIFER OR SPRUCE OR FIR OR TREE OR PINE)  
 L9 24 DUP REM L8 (0 DUPLICATES REMOVED)  
 L10 24 S L9  
 L11 0 S L9 AND PD<20030714

=> d scan L2  
 YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:y

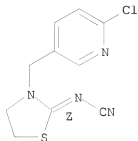
L2 8 ANSWERS REGISTRY COPYRIGHT 2011 ACS on STN  
 IN Butanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-1-  
 oxaspiro[4.5]dec-3-en-4-yl ester, mixt. with  
 [3-[(6-chloro-3-pyridinyl)methyl]-2-thiazolidinylidene]cyanamide (9CI)  
 MF C21 H24 Cl2 O4 . C10 H9 Cl N4 S  
 CI MXS

CM 1



CM 2

Double bond geometry as shown.



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

2.99

237.49

FILE 'REGISTRY' ENTERED AT 22:42:31 ON 04 FEB 2011

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STRUCTURE FILE UPDATES: 3 FEB 2011 HIGHEST RN 1262099-55-7

DICTIONARY FILE UPDATES: 3 FEB 2011 HIGHEST RN 1262099-55-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2010.

Please note that search-term pricing does apply when  
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REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.51

238.00

FILE 'REGISTRY' ENTERED AT 22:42:47 ON 04 FEB 2011

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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Property values tagged with IC are from the ZIC/VINITI data file  
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STRUCTURE FILE UPDATES: 3 FEB 2011 HIGHEST RN 1262099-55-7  
DICTIONARY FILE UPDATES: 3 FEB 2011 HIGHEST RN 1262099-55-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2010.

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> s L1

SAMPLE SEARCH INITIATED 22:43:05 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 21 TO ITERATE

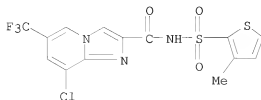
100.0% PROCESSED 21 ITERATIONS 8 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 146 TO 694  
PROJECTED ANSWERS: 8 TO 329

L12 8 SEA SSS SAM L1

=> d L12 1-8

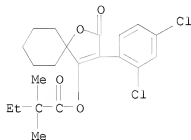
L12 ANSWER 1 OF 8 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 1254491-35-4 REGISTRY  
ED Entered STN: 30 Nov 2010  
CN Butanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-1-  
oxaspiro[4.5]dec-3-en-4-yl ester, mixt. with  
8-chloro-N-[(3-methyl-2-thienyl)sulfonyl]-6-(trifluoromethyl)imidazo[1,2-  
a]pyridine-2-carboxamide (CA INDEX NAME)  
MF C21 H24 Cl2 O4 . C14 H9 Cl F3 N3 O3 S2  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS  
  
CM 1  
  
CRN 1254307-15-7  
CMF C14 H9 Cl F3 N3 O3 S2



CM 2

CRN 148477-71-8

CMF C21 H24 Cl2 O4



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L12 ANSWER 2 OF 8 REGISTRY COPYRIGHT 2011 ACS on STN

RN 1147999-21-0 REGISTRY

ED Entered STN: 21 May 2009

CN Ivermectin, mixt. with 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl 2,2-dimethylbutanoate (CA INDEX NAME)

OTHER NAMES:

CN Spirodiclofen-ivermectin mixt.

MF C21 H24 Cl2 O4 . Unspecified

CI MXS

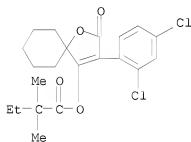
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 148477-71-8

CMF C21 H24 Cl2 O4



CM 2

CRN 70288-86-7

CMF Unspecified

CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

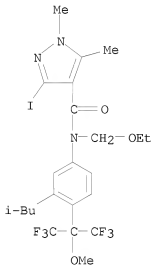
1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L12 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 1047988-57-7 REGISTRY  
 ED Entered STN: 09 Sep 2008  
 CN Butanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl ester, mixt. with N-(ethoxymethyl)-3-iodo-1,5-dimethyl-N-[3-(2-methylpropyl)-4-[2,2,2-trifluoro-1-methoxy-1-(trifluoromethyl)ethyl]phenyl]-1H-pyrazole-4-carboxamide (CA INDEX NAME)  
 MF C23 H28 F6 I N3 O3 . C21 H24 Cl2 O4  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS

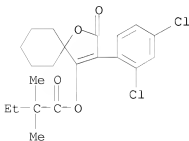
CM 1

CRN 926917-63-7  
 CMF C23 H28 F6 I N3 O3



CM 2

CRN 148477-71-8  
 CMF C21 H24 Cl2 O4



1 REFERENCES IN FILE CA (1907 TO DATE)

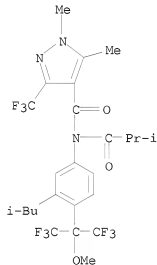
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L12 ANSWER 4 OF 8 REGISTRY COPYRIGHT 2011 ACS on STN  
 RN 1047988-00-0 REGISTRY  
 ED Entered STN: 09 Sep 2008  
 CN Butanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl ester, mixt. with 1,5-dimethyl-N-(2-methyl-1-oxopropyl)-N-[3-(2-methylpropyl)-4-{2,2,2-trifluoro-1-methoxy-1-(trifluoromethyl)ethyl}phenyl]-3-(trifluoromethyl)-1H-pyrazole-4-carboxamide (CA INDEX NAME)  
 MF C25 H28 F9 N3 O3 . C21 H24 C12 O4  
 CI MXS  
 SR CA  
 LC STN Files: CA, CAPLUS

CM 1

CRN 926916-85-0

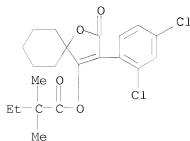
CMF C25 H28 F9 N3 O3



CM 2

CRN 148477-71-8

CMF C21 H24 C12 O4

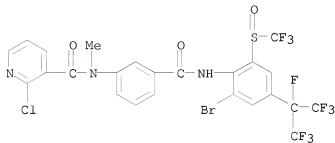


1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L12 ANSWER 5 OF 8 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 1033613-54-5 REGISTRY  
ED Entered STN: 11 Jul 2008  
CN Butanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl ester, mixt. with N-[3-[[[2-bromo-4-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]-6-[(trifluoromethyl)sulfinyl]phenyl]amino]carbonyl]phenyl]-2-chloro-N-methyl-3-pyridinecarboxamide (CA INDEX NAME)  
MF C24 H13 Br Cl F10 N3 O3 S . C21 H24 Cl2 O4  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

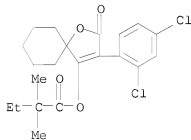
CM 1

CRN 917513-40-7  
CMF C24 H13 Br Cl F10 N3 O3 S



CM 2

CRN 148477-71-8  
CMF C21 H24 Cl2 O4



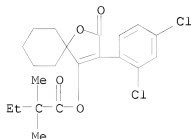
2 REFERENCES IN FILE CA (1907 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L12 ANSWER 6 OF 8 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 525579-35-5 REGISTRY  
ED Entered STN: 05 Jun 2003  
CN 2-Butenedioic acid (2Z)-, diethyl ester, mixt. with 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl

2,2-dimethylbutanoate (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C21 H24 Cl2 O4 . C8 H12 O4  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

CM 1

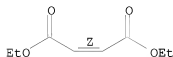
CRN 148477-71-8  
CMF C21 H24 Cl2 O4



CM 2

CRN 141-05-9  
CMF C8 H12 O4

Double bond geometry as shown.



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

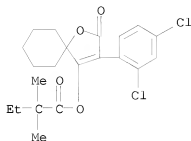
L12 ANSWER 7 OF 8 REGISTRY COPYRIGHT 2011 ACS on STN  
RN 332121-89-8 REGISTRY  
ED Entered STN: 24 Apr 2001  
CN Butanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl ester, mixt. with [3-[(6-chloro-3-pyridinyl)methyl]-2-thiazolidinylidene]cyanamide (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Cyanamide, [3-[(6-chloro-3-pyridinyl)methyl]-2-thiazolidinylidene]-, mixt. contg. (9CI)  
FS STEREOSEARCH  
MF C21 H24 Cl2 O4 . C10 H9 Cl N4 S  
CI MXS  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 148477-71-8



CMF C21 H24 Cl2 O4

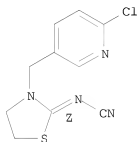


CM 2

CRN 111988-49-9

CMF C10 H9 Cl N4 S

Double bond geometry as shown.



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L12 ANSWER 8 OF 8 REGISTRY COPYRIGHT 2011 ACS on STN

RN 263895-56-3 REGISTRY

ED Entered STN: 08 May 2000

CN Butanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-1-

oxaspiro[4.5]dec-3-en-4-yl ester, mixt. with

4-chloro-2-(1,1-dimethylethyl)-5-[[[4-(1,1-

dimethylethyl)phenyl]methyl]thio]-3(2H)-pyridazinone (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3(2H)-Pyridazinone, 4-chloro-2-(1,1-dimethylethyl)-5-[[[4-(1,1-

dimethylethyl)phenyl]methyl]thio]-, mixt. contg. (9CI)

OTHER NAMES:

CN Spirodiclofen-pyridaben mixt.

MF C21 H24 Cl2 O4 . C19 H25 Cl N2 O S

CI MXS

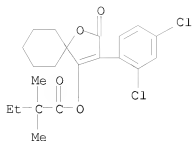
SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

CRN 148477-71-8

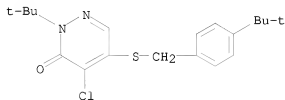
CMF C21 H24 Cl2 O4



CM 2

CRN 96489-71-3

CMF C19 H25 Cl N2 O S



6 REFERENCES IN FILE CA (1907 TO DATE)

6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

18.22

256.22

FILE 'REGISTRY' ENTERED AT 22:44:03 ON 04 FEB 2011

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STRUCTURE FILE UPDATES: 3 FEB 2011 HIGHEST RN 1262099-55-7

DICTIONARY FILE UPDATES: 3 FEB 2011 HIGHEST RN 1262099-55-7

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TSCA INFORMATION NOW CURRENT THROUGH June 26, 2010.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=> S 332121-89-8/RN

L13 1 332121-89-8/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND  
SET COMMAND COMPLETED

=> D L13 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y  
THE ESTIMATED COST FOR THIS REQUEST IS 7.20 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L13 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2011 ACS on STN

RN 332121-89-8 REGISTRY

CN Butanoic acid, 2,2-dimethyl-, 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl ester, mixt. with [3-[(6-chloro-3-pyridinyl)methyl]-2-thiazolidinylidene]cyanamide (9CI)  
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cyanamide, [3-[(6-chloro-3-pyridinyl)methyl]-2-thiazolidinylidene]-, mixt. contg. (9CI)

FS STEREOSEARCH

MF C21 H24 Cl2 O4 . C10 H9 Cl N4 S

CI MXS

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

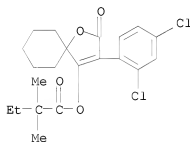
DT.CA CPlus document type: Patent

RL.P Roles from patents: BIOL (Biological study); USES (Uses)

CM 1

CRN 148477-71-8

CMF C21 H24 Cl2 O4

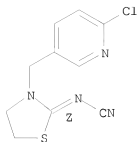


CM 2

CRN 111988-49-9

CMF C10 H9 Cl N4 S

Double bond geometry as shown.



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND  
SET COMMAND COMPLETED

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=> E " BUTANOIC ACID, 2,2-DIMETHYL-,
3-(2,4-DICHLOROPHENYL)-2-OXO-1-OXASPIRA[4,5]DEC-3-3N-4-YL ESTER"/CN 25
**** START OF FIELD ****
E3      0 --> BUTANOIC ACID, 2,2-DIMETHYL-,
3-(2,4-DICHLOROPHENYL)-2-OXO-1-OXASPIRA4,5DEC-3-3N-4-YL ESTER/CN
E4      1      'MONOMER A''-4-HYDROXYBUTYL ACRYLATE GLYCIDYL ETHER COPOLYMER/CN
E5      1      'COLD-SHOCK' DNA-BINDING DOMAIN (SALINIBACTER RUBER STRAIN DSM
13855)/CN
E6      1      'COMPONENT LINKED WITH THE ASSEMBLY OF CYTOCHROME' TRANSPORT
TRANSMEMBRANE ATP-BINDING PROTEIN ABC TRANSPORTER CYDC (MYCOBACTERIUM BCG STRAIN
PASTEUR 1173P2 GENE CYDC)/CN
E7      1      'COMPONENT LINKED WITH THE ASSEMBLY OF CYTOCHROME' TRANSPORT
TRANSMEMBRANE ATP-BINDING PROTEIN ABC TRANSPORTER CYDD (MYCOBACTERIUM BCG STRAIN
PASTEUR 1173P2 GENE CYDD)/CN
E8      1      'FOUR-DISULFIDE CORE' PROTEIN (CLOSTRIDIUM DIFFICILE STRAIN
630)/CN
E9      1      'HELIX-LOOP-HELIX' DIMERIZATION DOMAIN SIGNATURE PROTEIN
(ARTHROBACTER AURESCENS STRAIN TC1)/CN
E10     1      'HUMAN ALPHA-CATENIN' (HUMAN)/CN
E11     1      'HYG' TYPE I POLYKETIDE SYNTHASE (STREPTOMYCES HYGROSCOPICUS
CLONE PAL58/PAL16 MODULE 1 REDUCED)/CN
E12     1      'HYG' TYPE I POLYKETIDE SYNTHASE (STREPTOMYCES HYGROSCOPICUS
CLONE PAL58/PAL16 MODULE 2 REDUCED)/CN
E13     1      'HYG' TYPE I POLYKETIDE SYNTHASE (STREPTOMYCES HYGROSCOPICUS
CLONE PAL58/PAL16 MODULE 3 REDUCED)/CN
E14     1      'HYG' TYPE I POLYKETIDE SYNTHASE (STREPTOMYCES HYGROSCOPICUS
CLONE PAL58/PAL16 MODULE 4 REDUCED)/CN
E15     1      'UPENAMIDE/CN
E16     1      'UPENAMIDE DIOL/CN
E17     1      'UPENAMIDE S-MTPA ESTER/CN
E18     1
((( (((5S)-3-(4-(1,1-DIOXIDOTETRAHYDRO-2H-THIOPYRAN-4-YL)-3-FLUOROPHENYL)-2-OXO-1,3-O
XAZOLIDIN-5-YL)METHYL)AMINO)CARBONYL)OXY)METHYL ACETATE/CN
E19     1      ((( (1-AMINO-4-HYDROXY-2 (OR
3)-ANTHRAQUINONYL)OXY)BENZYL)CARBAMOYL)METHYL)TRIMETHYLAMMONIUM CHLORIDE/CN
E20     1
(((( (1S,5S,2R,6R)-6-(NITROOXY)-4,8-DIOXABICYCLO(3.3.0)OCTAN-2-YL)OXY)CARBONYL)METHYL
)(2S)-2-(6-METHOXY-2-NAPHTHYL)PROPANOATE/CN
```

E21 1  
 (((6-(4-(4-(DIISOPROPYLCARBAMOYL)-2-METHOXYPHENOXY)BUTOXY)BENZO(D)ISOXAZOL-3-YL)CARBAMOYL)METHYL)CARBAMOYL)METHYL)AMMONIUM METHANESULFONATE/CN  
 E22 1  
 (((9-FLUORENYL)METHOXY)CARBONYL)AMINO)OXY)ACETIC ACID/CN  
 E23 1  
 (((BIS(2,2,2-TRIFLUOROETHOXY)PHOSPHINYL)OXY)DIMETHYLSILYL)METHOXY)DIMETHYLSILYL)METHYL BIS(2,2,2-TRIFLUOROETHYL) PHOSPHATE/CN  
 E24 1  
 (((DIPHENOXYPHOSPHINYL)OXY)DIMETHYLSILYL)METHOXY)DIMETHYLSILYL)METHYL DIPHENYL PHOSPHATE/CN  
 E25 1  
 (((MERCAPTOALKOXY)CARBONYL)AMINO)ALKYL)CARBAMOYL)-TERMINATED POLYETHER RUBBER/CN

=> E "2,2-DIMETHYL-,  
 3-(2,4-DICHLOROPHENYL)-2-OXO-1-OXASPIRA[4,5]DEC-3-3N-4-YL-BUTANOIC ACID ESTER"/CN 25  
 E1 1 2,2-DIMETHYL-(4R)-1,3-DIOXOLANE-4-METHANOL/CN  
 E2 1 2,2-DIMETHYL-(4S)-1,3-DIOXOLANE-4-CARBOXYLIC ACID METHYL ESTER/CN  
 E3 0 --> 2,2-DIMETHYL-,  
 3-(2,4-DICHLOROPHENYL)-2-OXO-1-OXASPIRA4,5DEC-3-3N-4-YL-BUTANOIC ACID ESTER/CN  
 E4 1  
 2,2-DIMETHYL-.ALPHA.,.ALPHA.,.ALPHA.,.ALPHA.-TETRAPHENYL-1,3-DIOXOLANE-4,5-DIMETHANOL/CN  
 E5 1 2,2-DIMETHYL-.ALPHA.-TETRALONE/CN  
 E6 1 2,2-DIMETHYL-.BETA.-ALANINE/CN  
 E7 1 2,2-DIMETHYL-.BETA.-OXO-1,3-DIOXOLANE-4-PENTANOIC ACID ETHYL ESTER/CN  
 E8 1 2,2-DIMETHYL-.GAMMA.-BUTYROLACTONE/CN  
 E9 1 2,2-DIMETHYL-1,1,1,3,3-HEXAPHENYLTRISILANE/CN  
 E10 1 2,2-DIMETHYL-1,1,1,4,4-PENTANITROPENTANE/CN  
 E11 1 2,2-DIMETHYL-1,1,1-TRIFLUOROPROPANE/CN  
 E12 1 2,2-DIMETHYL-1,1,1-TRIPHENYLDISILANE/CN  
 E13 1 2,2-DIMETHYL-1,1,3-TRIBROMOCYCLOPROPANE/CN  
 E14 1 2,2-DIMETHYL-1,1-BIS(PHENYLTHIO)PROPANE/CN  
 E15 1 2,2-DIMETHYL-1,1-CYCLOPROPANEDICARBOXYLIC ACID/CN  
 E16 1 2,2-DIMETHYL-1,1-DINITROPROPANE/CN  
 E17 1 2,2-DIMETHYL-1,1-DIOXO-1,2-DIHYDROBENZO(B)THIOPHEN-3-ONE/CN  
 E18 1 2,2-DIMETHYL-1,1-DIOXO-2,3-DIHYDRO-1H-BENZO(B)THIOPHEN-3-OL/CN  
 E19 1 2,2-DIMETHYL-1,1-DIPHENYL-1-PROPANOL/CN  
 E20 1 2,2-DIMETHYL-1,1-DIPHENYLISOINDOLINIUM BROMIDE/CN  
 E21 1 2,2-DIMETHYL-1,1-DIPHENYLPROPANE/CN  
 E22 1 2,2-DIMETHYL-1,1-DIPHENYLPROPANOL/CN  
 E23 1 2,2-DIMETHYL-1,10-DECANEDIOL/CN  
 E24 1 2,2-DIMETHYL-1,2,2-BUTANETRIYL  
 TRIS(3-(4-TERT-BUTYL-3-HYDROXY-2,6-DIMETHYLPHENYL)PROPIONATE)/CN  
 E25 1 2,2-DIMETHYL-1,2,3,4-TETRAHYDRO-QUINOLINE-8-CARBOXYLIC ACID/CN

=> E  
 "2,2-DIMETHYL-3-(2,4-DICHLOROPHENYL)-2-OXO-1-OXASPIRA[4,5]DEC-3-3N-4-YL-BUTANOIC ACID ESTER"/CN 25  
 E1 1 2,2-DIMETHYL-3-(2,4-DICHLOROVINYL)CYCLOPROPANECARBONYL CHLORIDE/CN  
 E2 1 2,2-DIMETHYL-3-(2,4-DICHLOROVINYL)CYCLOPROPANECARBOXYLIC ACID/CN  
 E3 0 -->  
 2,2-DIMETHYL-3-(2,4-DICHLOROPHENYL)-2-OXO-1-OXASPIRA4,5DEC-3-3N-4-YL-BUTANOIC ACID ESTER/CN  
 E4 1  
 2,2-DIMETHYL-3-(2-(N-METHOXYIMINOMETHYL)-1-PROPENYL)-CYCLOPROPANE-1-CARBOXYL CHLORIDE/CN  
 E5 1 2,2-DIMETHYL-3-(2-ETHYLHEXYLOXY)PROPANAL/CN  
 E6 1 2,2-DIMETHYL-3-(2-FURYL)PROPANAL/CN  
 E7 1 2,2-DIMETHYL-3-(2-FURYL)PROPANOL/CN

E8	1	2,2-DIMETHYL-3-(2-FURYL)PROPANOL ACETATE/CN
E9	1	2,2-DIMETHYL-3-(2-METHYL PROPENYL)CYCLOPROPANE FORMYL CHLORIDE/CN
E10	1	2,2-DIMETHYL-3-(2-METHYL-1-PROPENYL)-CYCLOPROPANEMETHANOL/CN
E11	1	2,2-DIMETHYL-3-(2-METHYL-1-PROPENYL)CYCLOPROPANE CARBOXYLIC ACID
CYANO(3-PHENOXYPHENYL)METHYL ESTER/CN		
E12	1	2,2-DIMETHYL-3-(2-METHYL-1-PROPENYL)CYCLOPROPANECARBOXYLIC
ACID/CN		
E13	1	2,2-DIMETHYL-3-(2-METHYL-1-PROPENYL)CYCLOPROPANECARBOXYLIC ACID,
ESTER WITH 2-ALLYL-4-HYDROXY-3-METHYL-2-CYCLOPENTEN-1-ONE/CN		
E14	1	2,2-DIMETHYL-3-(2-METHYL-1-PROPENYLIDENE)CYCLOPROPANECARBOXYLIC
ACID/CN		
E15	1	2,2-DIMETHYL-3-(2-METHYL-4-(3-(3-METHYL-1-(4-TRIFLUOROMETHYLPHENYL)-1H-PYRAZOL-4-YL)
BUTOXY)PHENYL)PROPIONIC ACID/CN		
E16	1	2,2-DIMETHYL-3-(2-METHYLPROPANECARBONYLOXY)PROPANAL/CN
E17	1	2,2-DIMETHYL-3-(2-METHYLPROPENYL)CYCLOBUTANONE/CN
E18	1	2,2-DIMETHYL-3-(2-METHYLPROPENYL)CYCLOPROPANEMETHANOL/CN
E19	1	2,2-DIMETHYL-3-(2-METHYLPROPENYLIDENE)CYCLOPROPANECARBOXYLIC
ACID/CN		
E20	1	2,2-DIMETHYL-3-(2-PHENYLACRYLOYLOXY)PROPYL 2-PHENYLACRYLATE/CN
E21	1	2,2-DIMETHYL-3-(3,5-DI-TERT-BUTYL-4-HYDROXYPHENYL)-1-PROPANOL/CN
E22	1	2,2-DIMETHYL-3-(3,5-DI-TERT-BUTYL-4-HYDROXYPHENYL)PROPYL
3-MERCAPTOPROPIONATE/CN		
E23	1	2,2-DIMETHYL-3-(3-(2-(1-ADAMANTYL)ETHOXY)PHENYL)PROPIONIC ACID/CN
E24	1	2,2-DIMETHYL-3-(3-(METHYLENE)-4-PENTENYL)OXIRANE/CN
E25	1	2,2-DIMETHYL-3-(3-METHYL-2,4-PENTADIENYL)OXIRANE/CN
=> E "3-(2,4-DICHLOROPHENYL)-2-OXO-1-OXASPIRO[4.5]DEC-3-EN-4-YL		
2,2-DIMETHYLBUTANOATE"/CN 25		
E1	1	3-(2,4-DICHLOROPHENYL)-2-METHYLPROPANOL/CN
E2	1	3-(2,4-DICHLOROPHENYL)-2-METHYLPROPENAL/CN
E3	0 -->	3-(2,4-DICHLOROPHENYL)-2-OXO-1-OXASPIRO4.5DEC-3-EN-4-YL
2,2-DIMETHYLBUTANOATE/CN		
E4	1	3-(2,4-DICHLOROPHENYL)-2-OXO-1-OXASPIRO(4.5)DEC-3-EN-4-OL/CN
E5	1	3-(2,4-DICHLOROPHENYL)-2-OXO-1-OXASPIRO(4.5)DEC-3-EN-4-YL
4-CHLOROBENZOATE/CN		
E6	1	3-(2,4-DICHLOROPHENYL)-2-OXOCYCLOHEXANECARBOXYLIC ACID ETHYL
ESTER/CN		
E7	1	3-(2,4-DICHLOROPHENYL)-2-OXOCYCLOPENTANECARBOXYLIC ACID METHYL
ESTER/CN		
E8	1	3-(2,4-DICHLOROPHENYL)-2-PHENYLPROPIONIC ACID/CN
E9	1	3-(2,4-DICHLOROPHENYL)-2-PROPYNOIC ACID
N-(1-(2-(PYRROLIDIN-1-YL)ETHYL)-1H-INDOL-5-YL)AMIDE/CN		
E10	1	3-(2,4-DICHLOROPHENYL)-2-PROPYNOIC ACID
N-(2-(2-(PYRROLIDIN-1-YL)ETHYL)BENZOXAZOL-5-YL)AMIDE/CN		
E11	1	3-(2,4-DICHLOROPHENYL)-2-PROPYNOIC ACID
N-(2-CHLORO-4-(2-DIETHYLAMINOETHOXY)PHENYL)AMIDE HYDROCHLORIDE/CN		
E12	1	3-(2,4-DICHLOROPHENYL)-2-PROPYNOIC ACID
N-(3-CHLORO-4-(2-DIETHYLAMINOETHOXY)PHENYL)AMIDE/CN		
E13	1	3-(2,4-DICHLOROPHENYL)-2-PROPYNOIC ACID
N-(3-CHLORO-4-(3-DIETHYLAMINOPROPOXY)PHENYL)AMIDE HYDROCHLORIDE/CN		
E14	1	3-(2,4-DICHLOROPHENYL)-2-PROPYNOIC ACID
N-(3-METHOXY-4-(2-DIETHYLAMINOETHOXY)PHENYL)AMIDE HYDROCHLORIDE/CN		
E15	1	3-(2,4-DICHLOROPHENYL)-2-PROPYNOIC ACID
N-(4-(2-DIETHYLAMINOETHOXY)PHENYL)AMIDE/CN		
E16	1	3-(2,4-DICHLOROPHENYL)-2-PROPYNOIC ACID
N-(4-(2-DIETHYLAMINOETHYL)PHENYL)AMIDE HYDROCHLORIDE/CN		
E17	1	3-(2,4-DICHLOROPHENYL)-2-PROPYNOIC ACID
N-(4-(3-DIETHYLAMINOPROPOXY)PHENYL)AMIDE/CN		
E18	1	3-(2,4-DICHLOROPHENYL)-2-PYRAZINAMINE/CN
E19	1	3-(2,4-DICHLOROPHENYL)-3,4-DIHYDRO-2H-1,3-BENZOXAZINE/CN

E20 1  
 3-(2,4-DICHLOROPHENYL)-3-(1-((1,1-DIMETHYLETHYL)OXY)CARBONYL)-4-FLUORO-4-PIPERIDINY  
 L)PROPANOIC ACID/CN  
 E21 1 3-(2,4-DICHLOROPHENYL)-3-HYDROXY-1-(3-NITROPHENYL)PROPAN-1-ONE/CN  
 E22 1 3-(2,4-DICHLOROPHENYL)-3-HYDROXY-2-METHYLENEPROPANENITRILE/CN  
 E23 1 3-(2,4-DICHLOROPHENYL)-3-HYDROXYPROPANOIC ACID/CN  
 E24 1 3-(2,4-DICHLOROPHENYL)-3-METHYLBUTYRIC ACID ETHYL ESTER/CN  
 E25 1 3-(2,4-DICHLOROPHENYL)-3H-IMIDAZO(4,5-B)PYRIDIN-5-OL/CN

=> S E5

L14 1 "3-(2,4-DICHLOROPHENYL)-2-OXO-1-OXASPIRO(4.5)DEC-3-EN-4-YL  
 4-CHLOROBENZOATE"/CN

=> DIS L14 1 SQIDE

L14 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2011 ACS on STN

RN 148477-57-0 REGISTRY

CN Benzoic acid, 4-chloro-, 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-  
 en-4-yl ester (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Oxaspiro[4.5]decane, benzoic acid deriv.

OTHER NAMES:

CN 3-(2,4-Dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl  
 4-chlorobenzoate

MF C22 H17 Cl3 O4

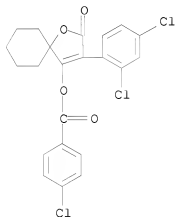
SR CA

LC STN Files: CA, CAPLUS, CASREACT

DT.CA CAPLUS document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation)

RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s 148477-57-0/RN

L15 1 148477-57-0/RN

=> file hcaplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	15.61	271.83

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 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2010  
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2010

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=> s L15  
 L16 2 L15

=> file hcaplus, agricola		
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	ENTRY	SESSION
FULL ESTIMATED COST	2.99	274.82

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=> s L15  
 L17 2 L15

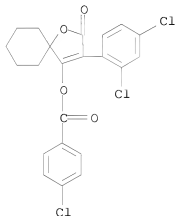
=> d L17 TI AB IBIB HITSTR

L17 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2011 ACS ON STN  
 TI 3-(2,4-Dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl 4-chlorobenzoate  
 AB In the spirodiclofen deriv. 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl 4-chlorobenzoate, C22H17Cl3O4, the cyclohexane ring adopts a chair conformation [four C atoms are planar with a mean



deviation of 0.018 .ANG. and the 2 C atoms at the flap positions deviate by 0.613(4) and -0.668(5) .ANG. from the plane]. The dihedral angles between the furan ring and the 2 benzene rings are 55.78(3) and 49.92(3).degree.. Weak intermol. C-H.cntdot..cntdot..cntdot.Cl interactions are obsd. in the crystal structure. Crystallog. data are given.

ACCESSION NUMBER: 2009:1509058 HCAPLUS  
DOCUMENT NUMBER: 153:73706  
TITLE: 3-(2,4-Dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl 4-chlorobenzoate  
AUTHOR(S): Zhou, Yong; Cheng, Jing Li; Zhu, Guo Nian; Zhao, Jin Hao  
CORPORATE SOURCE: College of Agriculture and Biotechnology, Zhejiang University, Hangzhou, 310029, Peop. Rep. China  
SOURCE: Acta Crystallographica, Section E: Structure Reports Online (2009), E65(12), o2992  
CODEN: ACSEBH; ISSN: 1600-5368  
URL: <http://journals.iucr.org/e/issues/2009/12/00/si2216/index.html>  
PUBLISHER: Wiley-Blackwell  
DOCUMENT TYPE: Journal; (online computer file)  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 153:73706  
IT 148477-57-0P, 3-(2,4-Dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl 4-chlorobenzoate  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and crystal and mol. structure of)  
RN 148477-57-0 HCAPLUS  
CN Benzoic acid, 4-chloro-, 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)  
REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d L17 2 TI AB IBIB HITSTR

L17 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2011 ACS on STN

TI Preparation and insecticidal, acaricidal, herbicidal, and fungicidal activities of 3-aryl-4-hydroxy-.DELTA.3-dihydrofuranone and -thiophenone derivatives

AB The prepn. of title compds. I, (X = alkyl, halo, alkoxy, haloalkyl; Y = H, alkyl, halo, alkoxy, haloalkyl; Z = alkyl, halo, alkoxy, n = 0-3; G = H, acyl, alkenylalkyl, organosulfonyl, organophosphonyl, diorganoaminoalkenylalkyl; A, B = H, halo substituted alkyl, alkenyl, alkynyl, alkoxyalkyl, alkylthioalkyl, cycloalkyl, etc.; D = O, S), as insecticide, acaricide, herbicide, and fungicide is claimed. Thus, KOCMe3 mediated cyclization of methoxycarbonylmethyl 2,4,6-trimethylphenylacetate in Me3COH gave furanone deriv. II.

ACCESSION NUMBER: 1993:517088 HCAPLUS

DOCUMENT NUMBER: 119:117088

ORIGINAL REFERENCE NO.: 119:21051a, 21054a

TITLE: Preparation and insecticidal, acaricidal, herbicidal, and fungicidal activities of 3-aryl-4-hydroxy-.DELTA.3-dihydrofuranone and -thiophenone derivatives

INVENTOR(S): Fischer, Reiner; Bretschneider, Thomas; Krueger, Bernd Wieland; Bachmann, Juergen; Erdelen, Christoph; Wachendorff-Neumann, Ulrike; Santel, Hans Joachim; Luerssen, Klaus; Schmidt, Robert R.

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 96 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4216814	A1	19930121	DE 1992-4216814	19920521
TW 213411	B	19930921	TW 1992-104983	19920625
EP 528156	A1	19930224	EP 1992-111324	19920703
EP 528156	B1	19970326		
R: BE, CH, DE, ES, FR, GB, GR, IT, LI, NL, PT				
ES 2099770	T3	19970601	ES 1992-111324	19920703
US 5262383	A	19931116	US 1992-909939	19920707
AU 9219599	A	19930121	AU 1992-19599	19920710
AU 645701	B2	19940120		
JP 05294953	A	19931109	JP 1992-206261	19920710
JP 3113078	B2	20001127		
BR 9202653	A	19930316	BR 1992-2653	19920713
KR 227884	B1	19991101	KR 1992-12458	19920713
ZA 9205260	A	19930428	ZA 1992-5260	19920715
PRIORITY APPLN. INFO.:			DE 1991-4123532	A1 19910716
			DE 1992-4216814	A 19920521

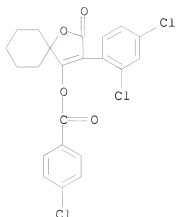
OTHER SOURCE(S): MARPAT 119:117088

IT 148477-57-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. and biol. activity of)

RN 148477-57-0 HCAPLUS

CN Benzoic acid, 4-chloro-, 3-(2,4-dichlorophenyl)-2-oxo-1-oxaspiro[4.5]dec-3-en-4-yl ester (CA INDEX NAME)



OS.CITING REF COUNT: 33 THERE ARE 33 CAPLUS RECORDS THAT CITE THIS  
RECORD (35 CITINGS)

=> FIL STNGUIDE

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
15.33	290.15

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-1.74	-1.74

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Jan 28, 2011 (20110128/UP).